This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims

1   1. (original)   A method comprising:

2   attempting in a first attempt to acquire a first resource for a task requiring both a

3   first resource and a second resource;

4   enqueuing said task on a first queue if said first attempt to acquire said first

5   resource for said task fails;

6   acquiring in a second attempt said first resource for said task;

7   removing said task from said first queue;

8   attempting in a first attempt to acquire said second resource for said task;

9   enqueing said task on a second queue if said first attempt to acquire said second

10   resource for said task fails; and

11   releasing said first resource for said task if said first attempt to acquire said

12   second resource for said task fails.

1   2. (original)   The method of claim 1 wherein said first task has a first priority,

2   and wherein said first attempt to acquire said first resource fails when a second task

3   having said first priority in enqueued on said first queue.

1   3. (original)   The method of claim 2 wherein said first task has a first priority,

2   said method further comprising:

3   attempting in a first attempt to acquire said first resource for a third task requiring

4   said first resource and having a second priority higher than said first priority, and

5   enqueuing said third task on a third queue if said first attempt to acquire said first

6   resource for said third task fails; and

7   wherein said first attempt to acquire said first resource for said first task fails

8   when said third task having said second priority is in enqueued on said third queue.

1   4. (original)   The method of claim 3 wherein said first task has a first priority,

2   and wherein said first attempt to acquire said second resource fails when a fourth task

3   having said first priority in enqueued on said second queue.

1   5. (original)   The method of claim 4 wherein said first task has a first priority,

2   said method further comprising:

3   attempting in a first attempt to acquire said second resource for a fifth task

4   requiring said second resource and having a second priority higher than said first priority,

5   and

6   enqueuing said fifth task on a fourth queue if said first attempt to acquire said

7   second resource for said fifth task fails; and

8   wherein said first attempt to acquire said second resource for said first task fails

9   when said fifth task having said second priority is in enqueued on said fourth queue.

1   6. (original)   The method of claim 5 further comprising:

2   acquiring in a third attempt said first resource for said first task;

3   attempting to acquire in a second attempt said second resource for said first task;

4   and

5   releasing said first resource for said first task if said second attempt to acquire

6   said second resource for said task fails.

1   7. (previously presented)   The method of claim 5 further comprising:

2   acquiring in a third attempt said first resource for said first task;

3   acquiring in a second attempt said second resource for said first task;

4   removing said first task from said second queue; and

5   dispatching said first task to be completed using said first and second resources.

1   8. (currently amended)   A method comprising:

2   attempting in a first attempt to acquire a first resource for a task requiring both a

3   first resource and a second resource;

4   enqueuing said task on a first queue if said first attempt to acquire said first

5   resource for said task fails;

6   acquiring in a second attempt said first resource for said task;

7   removing said task from said first queue;

8   attempting in a first attempt to acquire said second resource for said task;

9   enqueing said task on a second queue if said first attempt to acquire said second

10   resource for said task fails; and

11   releasing said first resource for said task if said first attempt to acquire said

12   second resource for said task fails;

13   wherein said first task has a first priority, and wherein said first attempt to acquire

14   said first resource fails when a second task having said first priority in enqueued on said

15   first queue;

16   attempting in a first attempt to acquire said first resource for a third task requiring

17   said first resource and having a second priority higher than said first priority, and

18   enqueuing said third task on a third queue if said first attempt to acquire said first

19   resource for said third task fails;

20   wherein said first attempt to acquire said first resource for said first task fails

21   when said third task having said second priority is in enqueued on said third queue; and

22   wherein said first attempt to acquire said second resource fails when a fourth task

23   having said first priority in enqueued on said second queue;

24   attempting in a first attempt to acquire said second resource for a fifth task

25   requiring said second resource and having a second priority higher than said first priority,

26   and

27   enqueuing said fifth task on a fourth queue if said first attempt to acquire said

28   second resource for said fifth task fails;

29   wherein said first attempt to acquire said second resource for said first task fails

30   when said fifth task having said second priority is in enqueued on said fourth queue;

31   acquiring in a third attempt said first resource for said first task;

32   acquiring in a second attempt said second resource for said first task;

33   removing said first task from said second queue;

34   dispatching said first task to be completed using said first and second resources;

35   ~~The method of claim 7 further comprising:~~

36   finding another task enqueued on one of said second and fourth queues for said

37   second resource;

38   acquiring said first resource for said other task;

39   attempting to acquire said second resource for said other task;

40   removing said other task from its queue if said attempt to acquire said second

41   resource for said other task succeeds;

42   dispatching said other task to be completed using said first and second resources

43   if said attempt to acquire said second resource for said other task succeeds; and

44   releasing said first resource for said other task if said attempt to acquire said

45   second resource for said other task fails.

1   9. (original)   The method of claim 7 wherein said third attempt is initiated by

2   the second resource becoming free.

1   10. (original) The method of claim 7 wherein said third attempt is initiated by

2   the first resource becoming free.

1   11. (currently amended) A method comprising:

2   attempting in a first attempt to acquire a first resource for a task requiring both a

3   first resource and a second resource;

4   enqueuing said task on a first queue if said first attempt to acquire said first

5   resource for said task fails;

6   acquiring in a second attempt said first resource for said task;

7   removing said task from said first queue;

8   attempting in a first attempt to acquire said second resource for said task;

9   enqueing said task on a second queue if said first attempt to acquire said second

10   resource for said task fails; and

11   releasing said first resource for said task if said first attempt to acquire said

12   second resource for said task fails;

13   wherein said first task has a first priority, and wherein said first attempt to acquire

14   said first resource fails when a second task having said first priority in enqueued on said

15   first queue;

16   attempting in a first attempt to acquire said first resource for a third task requiring

17   said first resource and having a second priority higher than said first priority, and

18   enqueuing said third task on a third queue if said first attempt to acquire said first

19   resource for said third task fails;

20   wherein said first attempt to acquire said first resource for said first task fails

21   when said third task having said second priority is in enqueued on said third queue; and

22   wherein said first attempt to acquire said second resource fails when a fourth task

23   having said first priority in enqueued on said second queue;

24   attempting in a first attempt to acquire said second resource for a fifth task

25   requiring said second resource and having a second priority higher than said first priority,

26   and

27   enqueuing said fifth task on a fourth queue if said first attempt to acquire said

28   second resource for said fifth task fails;

29   wherein said first attempt to acquire said second resource for said first task fails

30 when said fifth task having said second priority is in enqueued on said fourth queue;

31   acquiring in a third attempt said first resource for said first task;

32   acquiring in a second attempt said second resource for said first task;

33   removing said first task from said second queue;

34   dispatching said first task to be completed using said first and second resources;

35   ~~The method of claim 7 further comprising:~~

36   after all tasks have been removed from said second and fourth queues, finding a

37 next task enqueued on one of said first and third queues for said first resource;

38   acquiring said first resource for said next task ;

39   attempting to acquire said second resource for said next task;

40   removing said next task from its queue if said attempt to acquire said second

41 resource for said next task succeeds;

42   dispatching said next task to be completed using said first and second resources if

43 said attempt to acquire said second resource for said next task succeeds; and

44   releasing said first resource for said next task if said attempt to acquire said

45 second resource for said next task fails.

1   12-30. (cancelled)